

“STOP! READ THE PAMPHLET BEFORE USING THIS PRODUCT,  
CONSULT WITH A PROFESSIONAL IN AGRICULTURAL SCIENCES”

CROPSOLUTIONS

# BLACK FLAG 5 EC

## INSECTICIDE – EMAMECTIN BENZOATE

A mixture of 90% emamectin B1a: (1R,4S,5'S,6S,6'R,8R,12S,13S,20R,21R,24S)-6'-(S)-sec-butyl]-21,24-dihydroxy-5',11,13,22-tetramethyl-2-oxo-(3,7,19-trioxatetacyclo[5.6.1.14.8,20,24]pentacosa-10,14,16,22-tetraene)-6-spiro-2'-(5',6'-dihydro-2'H-pyran)-12-yl 2,6-dideoxy-3-O-methyl-4-O-(2,4,6-trideoxy-3-O-methyl-4-methylamino- $\alpha$ -L-lyxo-hexapyranosyl)- $\alpha$ -L-arabinohexapyranoside

And 10% of emamectin B1b:

(10E,14E,16E,22Z)-(1R,4S,5'S,6S,6'R,8R,12S,13S,20R,21R,24S)-21,24-dihydroxy-6'-isopropyl-5',11,13,22-tetramethyl-2-oxo-(3,7,19-trioxatetacyclo[5.6.1.14.8,20,24]pentacosa-10,14,16,22-tetraene)-6-spiro-2'-(5',6'-dihydro-2'H-pyran)-12-yl 2,6-dideoxy-3-O-methyl-4-O-(2,4,6-trideoxy-3-O-methyl-4-methylamino- $\alpha$ -L-lyxo-hexapyranosyl)- $\alpha$ -L-arabinohexapyranoside

## ATTENTION!

### ANTIDOTE: DOES NOT EXIST

“THIS PRODUCT MAY BE FATAL IF SWALLOWED OR INHALED. MAY CAUSE DAMAGE TO THE EYES AND SKIN BY EXPOSURE”.

“DO NOT STORE IN HOMES”.

“KEEP AWAY FROM CHILDREN, PERSONS WITH MENTAL DISABILITIES, ANIMALS, FOOD, AND MEDICINE”.



**AGRONOMIC USE:** Insecticide for agricultural use.

**MODE OF ACTION:** BLACK FLAG 5 EC acts by stimulating the release of  $\gamma$ -aminobutyric acid, an inhibitory neurotransmitter, thus causing insect paralysis within hours of ingestion, and subsequent insect death 2–4 days later.

**APPLICATION EQUIPMENT:** BLACK FLAG 5 EC can be applied with backpack sprayers, tractor driven equipment and aerial spraying. Use a water volume of 40-80 L/Acre with tractor driven equipment and 15-20 L/Acre with aerial spraying. It is recommended to check and make sure that the equipment is in perfect working condition, without any leaks and duly calibrated.



**PREPARATION OF MIXTURE:** Equipment must be clean before preparing spray solution. Fill spray tank with clean water to reach 3/4 of the final spray solution required. Begin agitation, continue agitation during mixing and application of the spray solution. Add tank mix products in the following order: first add BLACK FLAG 5 EC then add other pesticides, and adjuvants if necessary. Make sure tank mix components are fully dissolved or in suspension. Add remaining water to fill the tank to 100% of spray solution required. Do not prepare more spray solution than required for immediate operation. Thoroughly clean spray tank after each day's use.

### RECOMMENDATIONS FOR USE IN BELIZE:

CROP	PEST	DOSAGE
Corn	Fall Armyworm (FAW)	60 - 140 ml/Acre
Zea mays	<i>Spodoptera frugiperda</i>	

**APPLICATION INTERVAL:** 7-15 days depending on pest pressure. Do not apply more than 2 applications per crop cycle; rotate with different mode of action.

**INTERVAL BETWEEN THE LAST APPLICATION AND HARVEST:** For corn, it is recommended to apply product 30 days before harvest.

**RE-ENTRY INTERVAL TO TREATED AREA:** 12 hours after the product has dried. If it is necessary to enter the treated area, wear personal protective gear/equipment recommended for application use.

**PHYTOTOXICITY:** Not phytotoxic to corn under the recommended dosages.

**COMPATABILITY:** It is compatible and can be applied with other agrochemical products of common use in agriculture. However, before preparing a tank mix for the first time, it is recommended to do a small-scale test. Not compatible with alkaline conditions and strong acids.

## PRECAUTIONS AND WARNINGS FOR USE

**STORAGE AND TRANSPORTATION:** Store and transport product away from food, drinking water, medications, and clothes for personal use. Transport product in its original package and make sure it is tightly closed. Store under lock and key in a cool, dry, and well-ventilated area.

“DO NOT STORE IN DWELLINGS. KEEP OUT OF REACH OF CHILDREN AND MENTALLY DISABLED PERSONS.”



**USE THE RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT WHILE HANDLING, MIXING, LOADING AND APPLICATION OF PRODUCT:** RUBBER GLOVES, RUBBER BOOTS, MASK, HAT, EYE PROTECTION, LONG PANTS, LONG-SLEEVED SHIRT, AND AN IMPERMEABLE APRON. WASH THE EQUIPMENT AFTER THE APPLICATION IS FINISHED. THIS EQUIPMENT MUST BE DULY IDENTIFIED AND MUST NOT BE USED FOR OTHER PURPOSES.

DO NOT EAT, SMOKE, OR DRINK WHILE APPLYING OR HANDLING THIS PRODUCT. TAKE A SHOWER AFTER WORKING WITH THIS PRODUCT AND WEAR CLEAN CLOTHES.



**SYMPTOMS OF INTOXICATION:** May include nausea, vomiting, diarrhea, abdominal pain, dyspnea, cough, throat irritation, aspiration pneumonia, muscular tremors, lack of coordination, dilated pupils, and numbness.

### FIRST AID:

**IN CASE OF INGESTION:** Do not induce vomiting. Take the patient immediately to the physician or to the nearest healthcare center. Take the information available of this product (label or pamphlet).

**IN CASE OF CONTACT WITH SKIN:** Remove contaminated clothing. Immediately wash the affected area with plenty of water and soap for 15 to 20 minutes. Take patient to the doctor or the nearest healthcare center. Take the information available of this product (label or pamphlet).

**IN CASE OF INHALATION:** Move patient from the contaminated area to a ventilated area. Take patient to the doctor or the nearest healthcare center immediately. Take the information available of this product (label or pamphlet).

**IN CASE OF EYE CONTACT:** Wash immediately with clean water for 15 to 20 minutes. Take patient to the doctor or the nearest health care center immediately. Take the information of the product available (label and pamphlet).

DO NOT GIVE A DRINK OR INDUCE VOMITING TO A PERSON IN AN UNCONSCIOUS STATE

**MEDICAL TREATMENT:** No antidote. Treat symptomatically.

### NATIONAL INTOXICATION CENTERS:

Belize Karl Heusner Memorial Hospital (501) 223-1548 / 223-1671

### ENVIRONMENTAL PROTECTION MEASURES:

TOXIC TO FISH AND CRUSTACEANS



TOXIC TO BEES



“DO NOT CONTAMINATE RIVERS, LAKES, AND PONDS WITH THIS PRODUCT OR ITS EMPTY CONTAINERS OR PACKAGING”

**PERSISTENCE & SPILLAGE:** BLACK FLAG 5 EC is moderately to highly persistent in the soil or sediment leading to slow degradation. In case of spillage, prevent contamination of water and food. For spillage of product's solution or mixture, cover with sand or sawdust, sweep up and place in a separate tightly closed container identified for its subsequent removal / disposal according to local regulations.

**PHYSICAL AND CHEMICAL HAZARDS:** Under normal storage conditions, it is not considered flammable, explosive, or corrosive.

“RESPECT PROTECTED AREAS OF RIVERS, STREAMS, AND OTHER FRAGILE AREAS”.

“DO NOT APPLY THIS PRODUCT IN WEATHER CONDITIONS THAT FAVOR RUNOFF OR PESTICIDE DRIFT”.

“ENSURE THE PROTECTED AREAS NEAR WATER HAVE BUFFER ZONES (SUCH AS VEGETATION) THAT WILL REDUCE PESTICIDE DRIFT FROM CROP AREAS”.

**MANAGEMENT OF CONTAINERS, PACKAGING, WASTE, AND REMNANTS:**

Do not leave surpluses in the application equipment during any period. Do not use empty containers and packaging for other purposes. Do not dispose wastes in drains; dispose of products residues and containers as hazardous residues with all possible precautions. Triple rinse empty containers and use washings in with the product spray application; later, empty containers and packaging must be destroyed puncturing and delivering them to the nearest collection center or according to local laws. It is prohibited to dispose of residues or empty containers in dumps and/ or unauthorized or illegal sanitary landfills.



**THE USE OF THE CONTAINERS OR PACKAGES DIFFERENTLY TO WHAT THEY WERE DESIGNED, PUTS AT RISK HUMAN HEALTH AND THE ENVIRONMENT.**

**WARRANTY NOTICE:** The formulator guarantees that the content of this container is in accordance with the chemical composition indicated on the label. Not having control of the application, dosage and mixing with other products and other factors related to the direct use of this product. The formulator and distributor are not responsible for the results obtained as a result of misuse of this product. Buyer agrees that seller's maximum liability shall not exceed the purchase price of this product.

**FORMULATED BY:**

Crop Solutions Ltd.  
Valley Of Peace Road, Banana Bank Area,  
Cayo District, Belize C.A.  
Email: office@cropsolutionsltd.com  
Tel: 674-7220

**COUNTRY AND REGISTRATION NUMBER**

**BELIZE**                    **0348-5**